



Europäisches Patentamt
European Patent Office
Office européen des brevets

(11) Publication number:

**0 313 005
A3**

(12)

EUROPEAN PATENT APPLICATION

(21) Application number: 88117368.6

(51) Int. Cl.⁴: **G01N 33/574 , A61K 49/00 ,
G01N 33/80**

(22) Date of filing: 19.10.88

(30) Priority: 23.10.87 US 111667

(43) Date of publication of application:
26.04.89 Bulletin 89/17

(84) Designated Contracting States:
DE FR IT

(88) Date of deferred publication of the search report:
13.12.89 Bulletin 89/50

(71) Applicant: **E.I. DU PONT DE NEMOURS AND
COMPANY** (a Delaware corporation)
1007 Market Street
Wilmington Delaware 19898(US)

(72) Inventor: **Compton, Carolyn Corlies**
18 Cramond Road
Chestnut Hill Massachusetts 02167(US)
Inventor: **Durda, Paul John**
149 Laurel Drive
Needham Massachusetts 02192(US)

(74) Representative: **von Kreisler, Alek,**
Dipl.-Chem. et al
Patentanwälte Von Kreisler-Selting-Werner
Deichmannhaus am Hauptbahnhof
D-5000 Köln 1(DE)

(54) **Method for detecting carcinomatous and precarcinomatous colo-rectal disease.**

(57) A method for distinguishing between carcinomatous and/or precarcinomatous colo-rectal disease and histologically similar conditions due to diseases that are not carcinomatous or precarcinomatous comprising contacting colo-rectal tissue with an antibody that binds to blood group substance H and determining the presence of carcinomatous or precarcinomatous disease upon a finding of bound antibody, or the absence of such disease upon the finding of no bound antibody.

EP 0 313 005 A3



European Patent
Office

PARTIAL EUROPEAN SEARCH REPORT
which under Rule 45 of the European Patent Convention
shall be considered, for the purposes of subsequent
proceedings, as the European search report

Application number

EP 88 11 7368 ✓

DOCUMENTS CONSIDERED TO BE RELEVANT			
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	CLASSIFICATION OF THE APPLICATION (Int. Cl.4)
X,D	CANCER, vol. 59, no.1, 1967, pages 118-127 C. COMPTON et al.: "Immunohistochemical studies of blood group substance H in colorectal tumors using a monoclonal antibody" * Whole article *	1,2,5,6,13	G 01 N 33/574 A 61 K 49/00 G 01 N 33/80
X	J. NATL. CANCER INST. vol. 77, no. 2, August 1986, pages 387-396, C.S. ERNST et al.: "Multiparameter evaluation of the expression in situ of normal and tumor-associated antigens in human colorectal carcinoma" * Pages 387-388; page 389, column 1, last 3 lines; page 394, column 1, last paragraph - page 394, column 2, line 5 *	1,5,13	TECHNICAL FIELDS SEARCHED (Int. Cl.4) G 01 N
INCOMPLETE SEARCH			
<p>The Search Division considers that the present European patent application does not comply with the provisions of the European Patent Convention to such an extent that it is not possible to carry out a meaningful search into the state of the art on the basis of some of the claims.</p> <p>Claims searched completely: 1,2,5-13</p> <p>Claims searched incompletely: 3,4</p> <p>Claims not searched: 3,4</p> <p>Reason for the limitation of the search:</p> <p>Method for treatment of the human or animal body by surgery or therapy (see art. 52(4) of the European Patent Convention).</p>			
Place of search The Hague		Date of completion of the search 09-08-1989	Examiner HITCHEN
<p>CATEGORY OF CITED DOCUMENTS</p> <p>X : particularly relevant if taken alone Y : particularly relevant if combined with another document of the same category A : technological background O : non-written disclosure P : intermediate document</p> <p>T : theory or principle underlying the invention E : earlier patent document, but published on, or after the filing date D : document cited in the application L : document cited for other reasons</p> <p>& : member of the same patent family, corresponding document</p>			



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	HYBRIDOMA, vol. 6, no. 4, 1987, pages 389-401, Mary Ann Liebert Inc.; U. RODECK et al.: "A mucin containing the X, Y, and H type 2 carbohydrate determinants is shed by carcinoma cells" * Whole abstract * --	1	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
X	BIOSIENCE REPORTS, vol. 3, 1983, pages 163-170, Biochem. Soc., GB; A. BROWN et al.: "A monoclonal antibody against human colonic adenoma recognizes difucosylated type-2-blood-group chains" * Pages 163,164,166,168 * --	1,5,13	
Y	EP-A-0 038 738 (C.P. FELLA et al.) * Whole abstract; page 2, line 5 - page 3, line 39 * --	1,5,7,11,13	
Y,D	FRONT.GASTROINTEST. RES. vol. 4, 1979, pages 51-64, Karger, Basel, CH; D.G. SHEAHAN: "Blood group ABH isoantigens in colonic mucosa of patients with inflammatory bowel disease" * Introduction * --	1,5,7,11,13	
X,P	BR. J. CANCER, vol. 58, no. 2, 1988, pages 176-181, The Macmillan Press, Ltd; U. KARSTEN et al.: "A new monoclonal antibody (A46-B/B10) highly specific for the blood group H type 2 epitope: Generation, epitope analysis, serological and histological evaluation" ./.		



DOCUMENTS CONSIDERED TO BE RELEVANT			CLASSIFICATION OF THE APPLICATION (Int. Cl. 4)
Category	Citation of document with indication, where appropriate, of relevant passages	Relevant to claim	
A	* Page 176; page 177, table 1 *	1,5,13	
	--		
	US-A-4 678 747 (K.O. LLOYD et al.)	1,2,5,6,13	TECHNICAL FIELDS SEARCHED (Int. Cl. 4)
	--		
X,E	US-A-4 814 275 (P.J. DURDA et al.)		
	* Column 2, line 49 - column 5, line 50; column 7, line 52 - column 8, line 29; column 9, line 16 - column 10, line 15 *		
